



PATENT ABSTRACTS OF JAPAN

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(54) PERMSELECTIVE MEMBRANE

(57) Abstract:

PURPOSE: To provide a permselective membrane for selectively separate and concentrating oxygen in the air, constituted of a polymer consisting of a polyamine component prepared by containing two kinds of specific polyamine compounds in a predetermined ratio and polyisocyanate.

CONSTITUTION: A polyamine compound I represented by formula (wherein R_1 , R_2 , R_{11} and R_{12} are a hydrogen atom or a 1W10C hydrocarbon group, R_3 , R_4 , R_5 , R_6 , R_5' , R_6' , R_7 , R_{13} , R_{14} , R_{15} , R_{16} , R_{15}' and R_{16}' are a monovalent hydrocarbon group, x, y, z, o and p are an integer of 1W10 and n and m are an integer of 1W250) and a polyamine compound II represented by formula II are prepared. These two kinds of polyamine compounds are contained in such a mol ratio that polyamine compound I / (polyamine compound I + polyamine compound II) is 0.1W1 to prepare a polyamine component which is, in turn, reacted with

polyisocyanate having a plurality of isocyanate groups to form siloxane-containing polyurea polymer. Oxygen in the air is separated and conc. by the permselective membrane comprising this polymer.

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